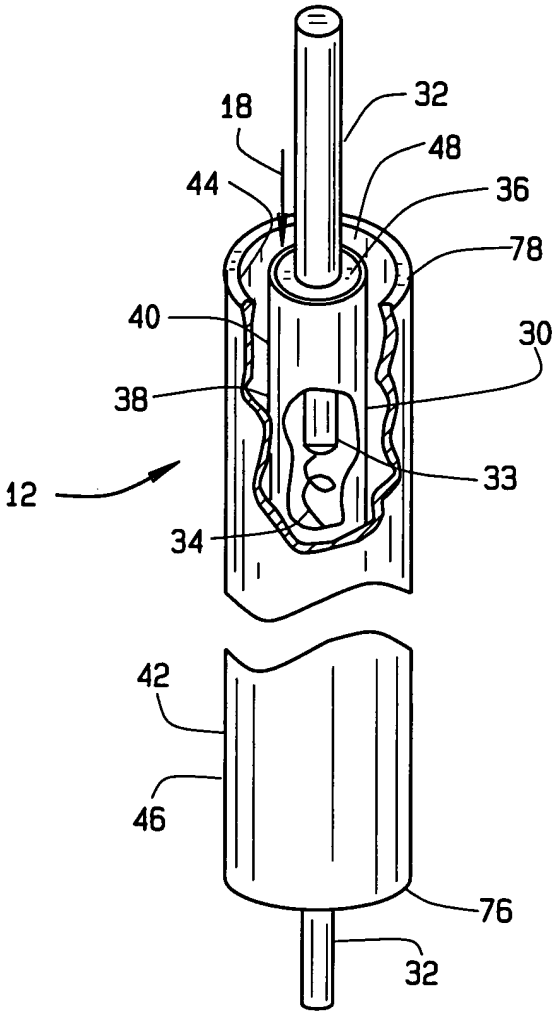

FIG. 1

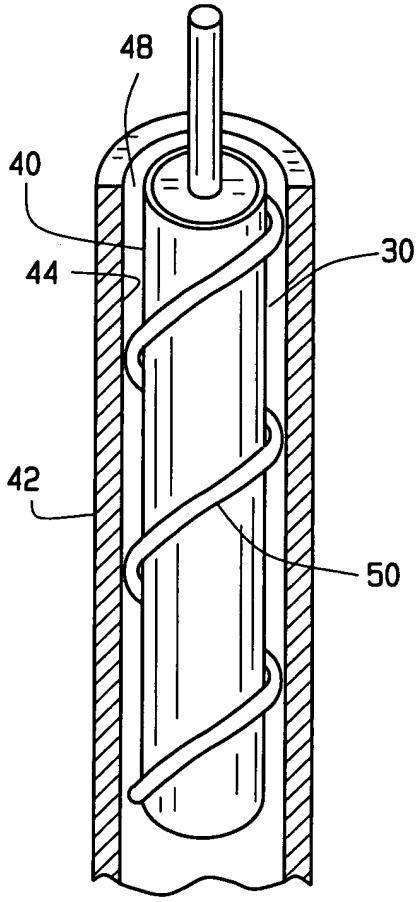

FIG. 2

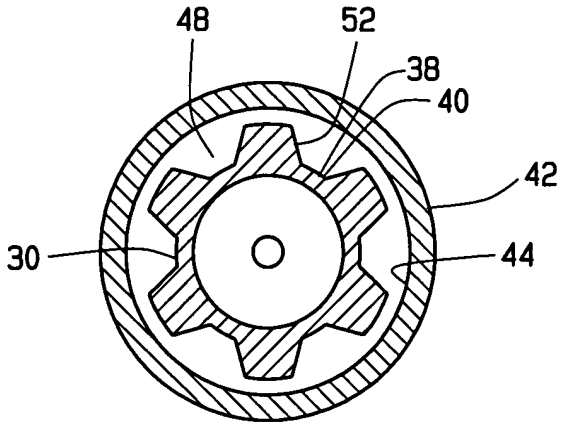

FIG. 3A

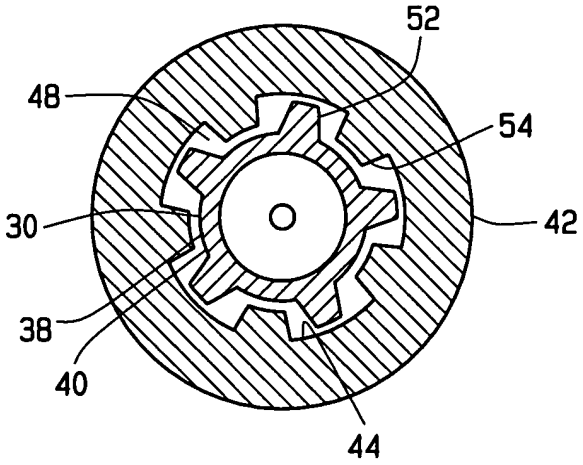

FIG. 3B

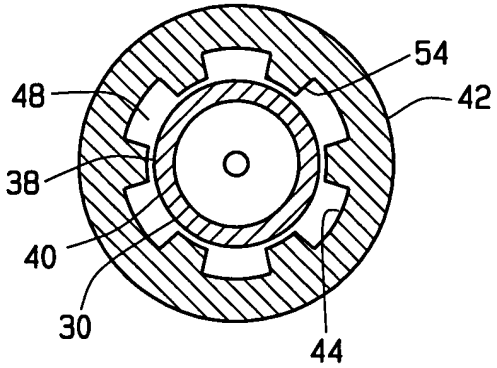

FIG. 3C

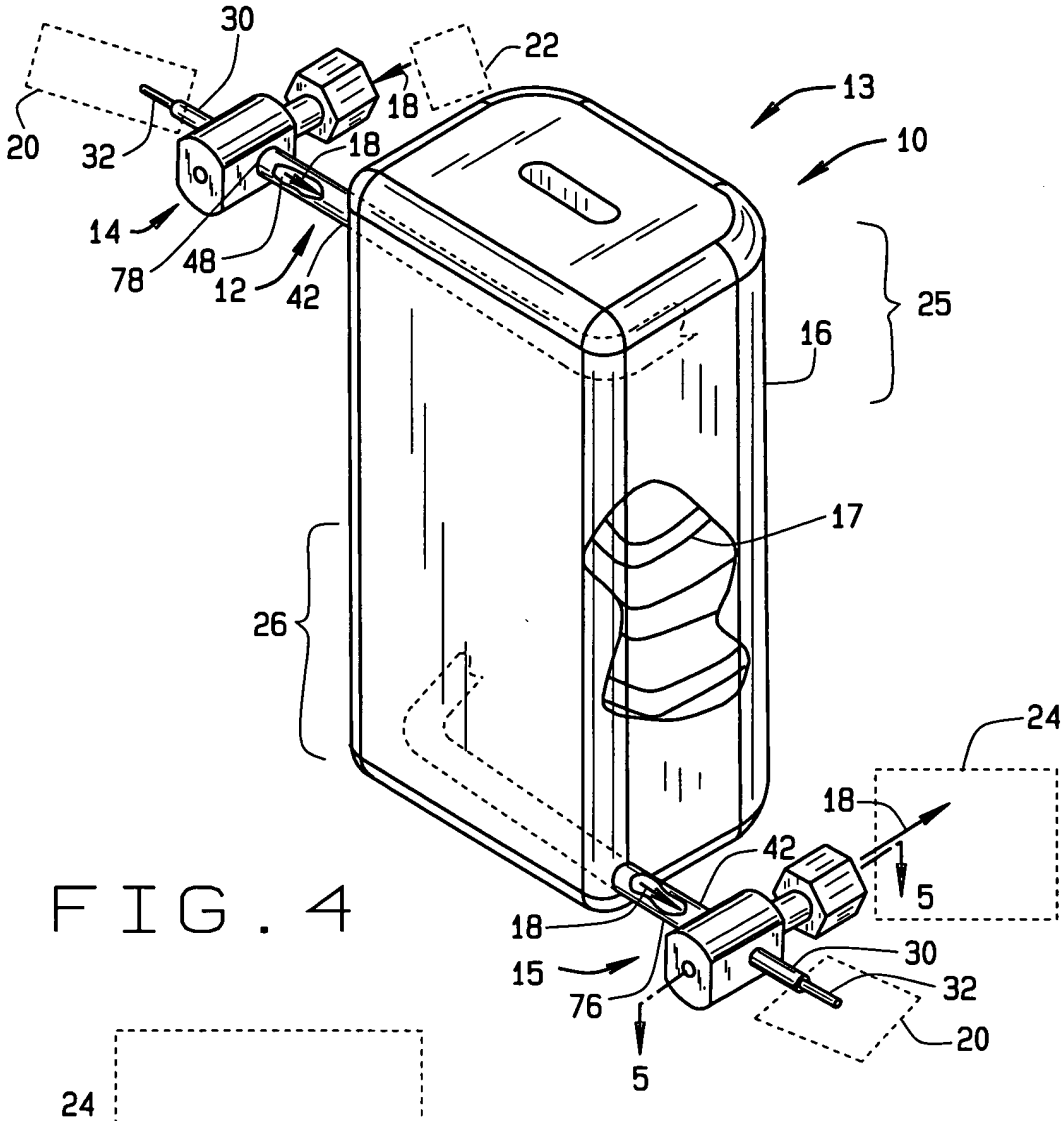

FIG. 4

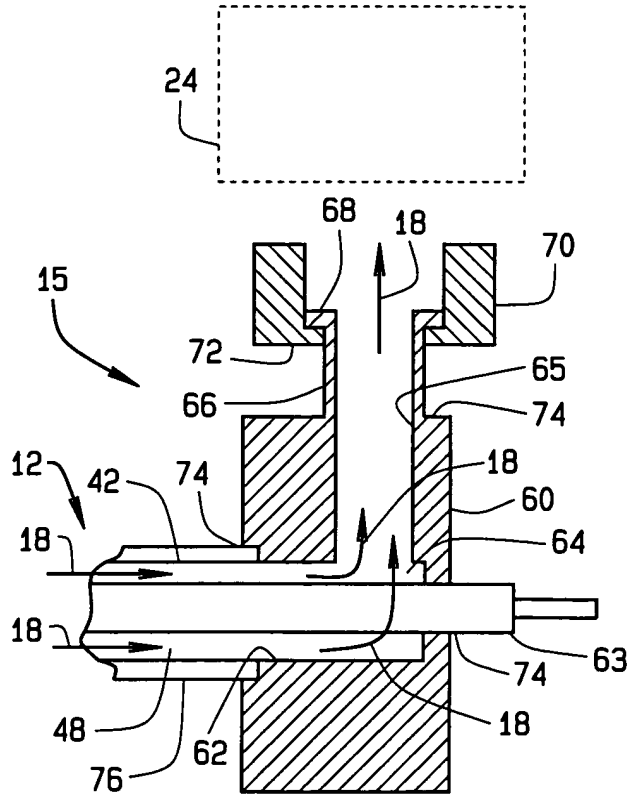

FIG. 5

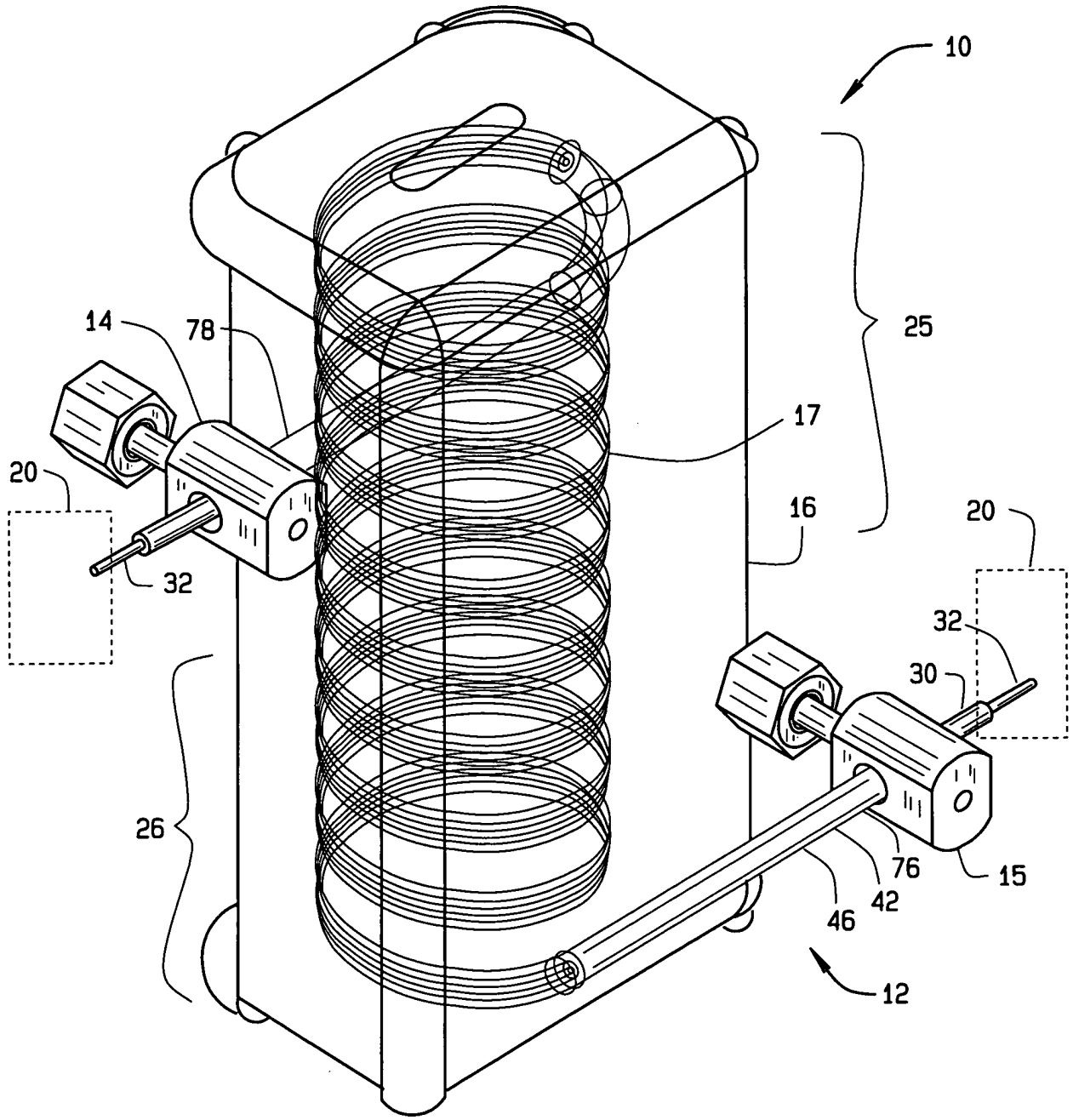

FIG. 6

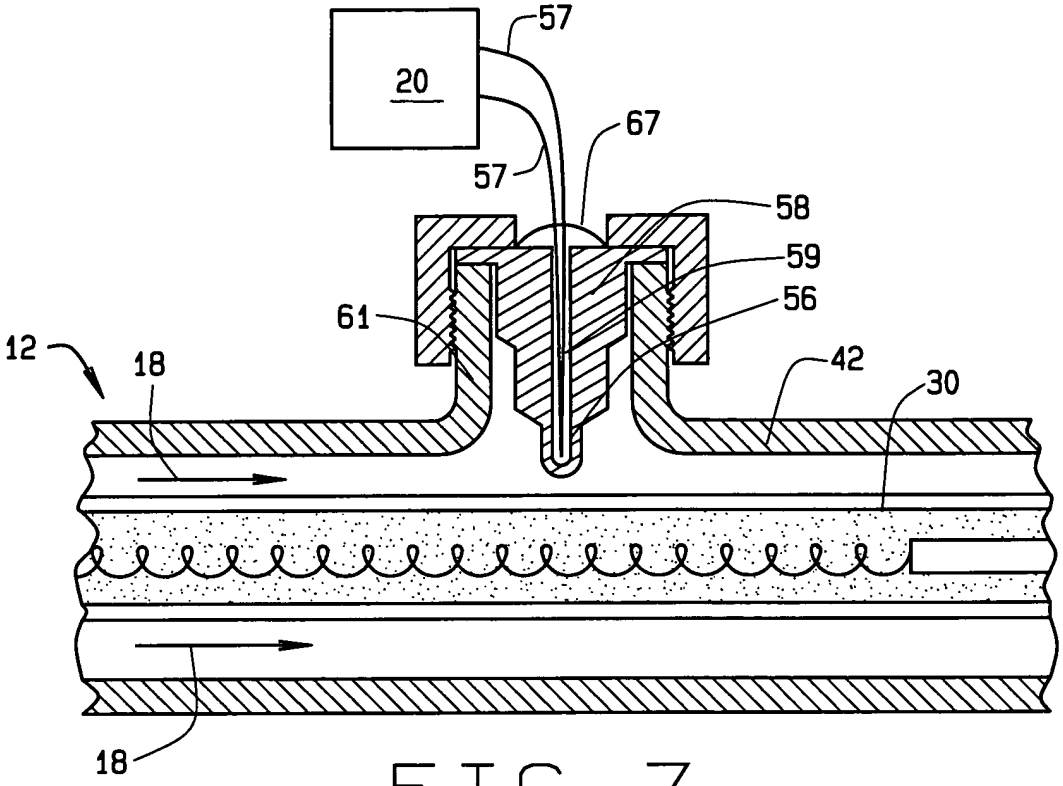

FIG. 7

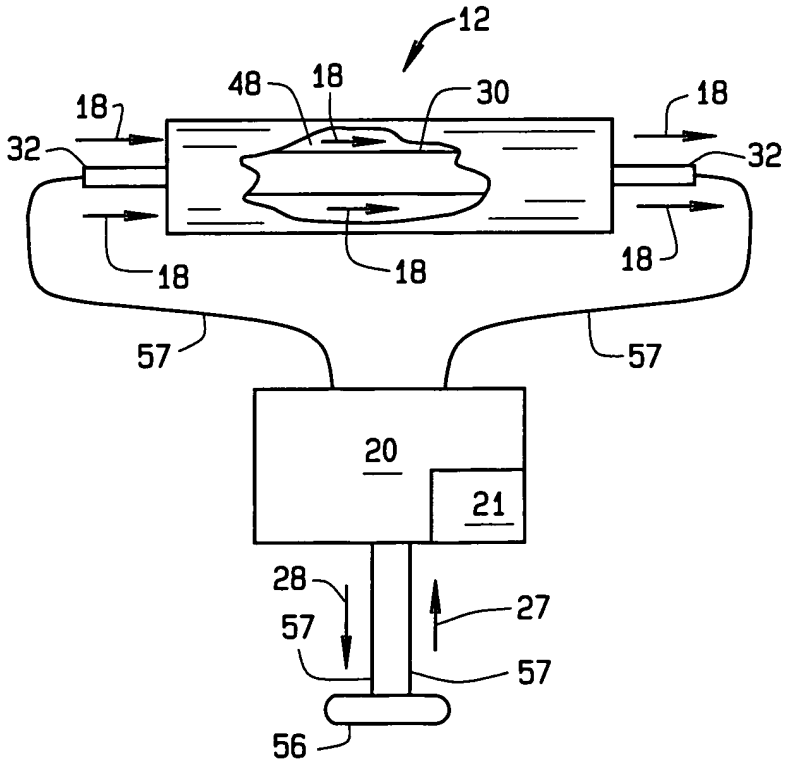

FIG. 8

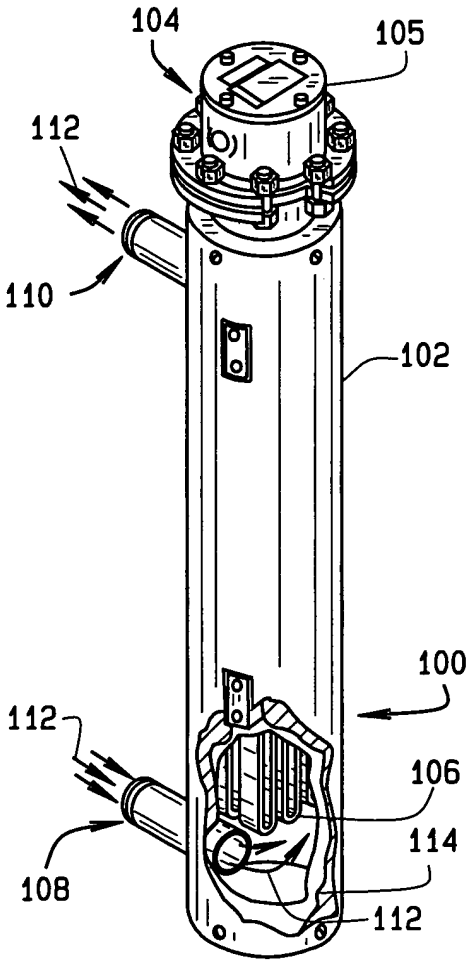

FIG. 9
PRIOR ART

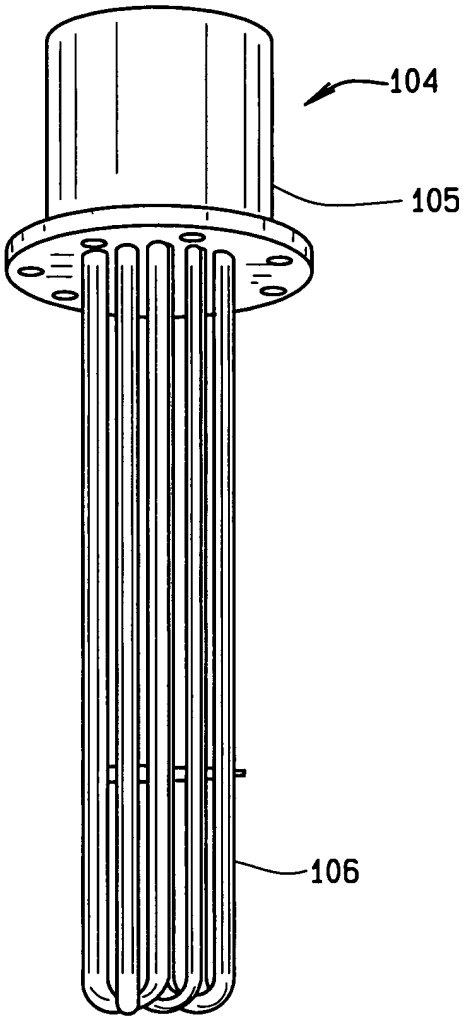

FIG. 9A
PRIOR ART

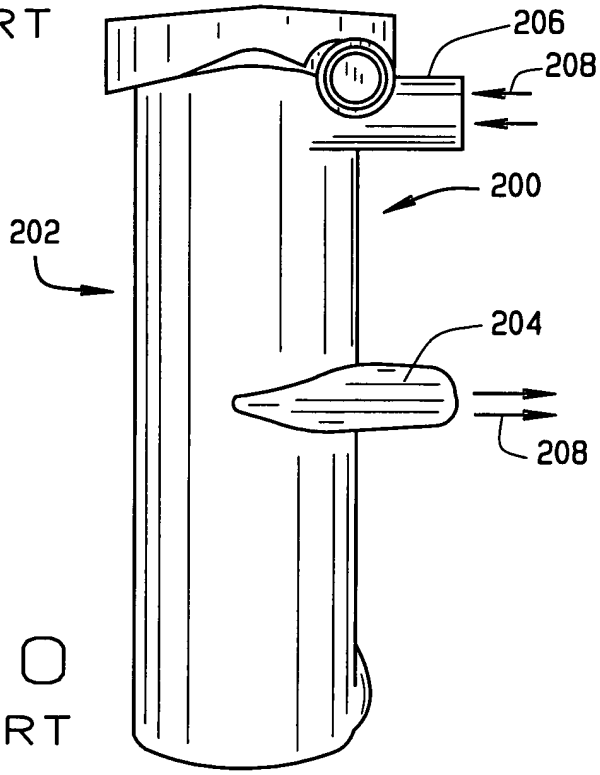

FIG. 10
PRIOR ART

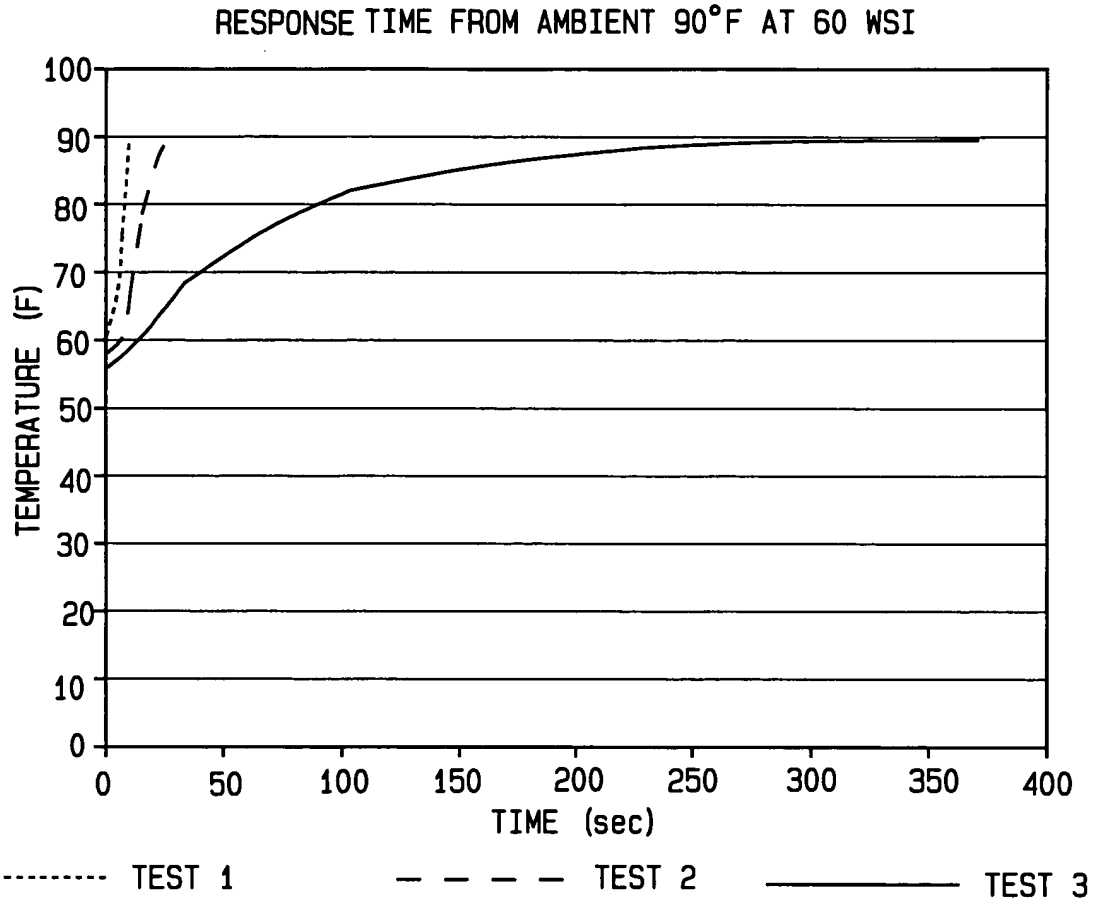

FIG. 11

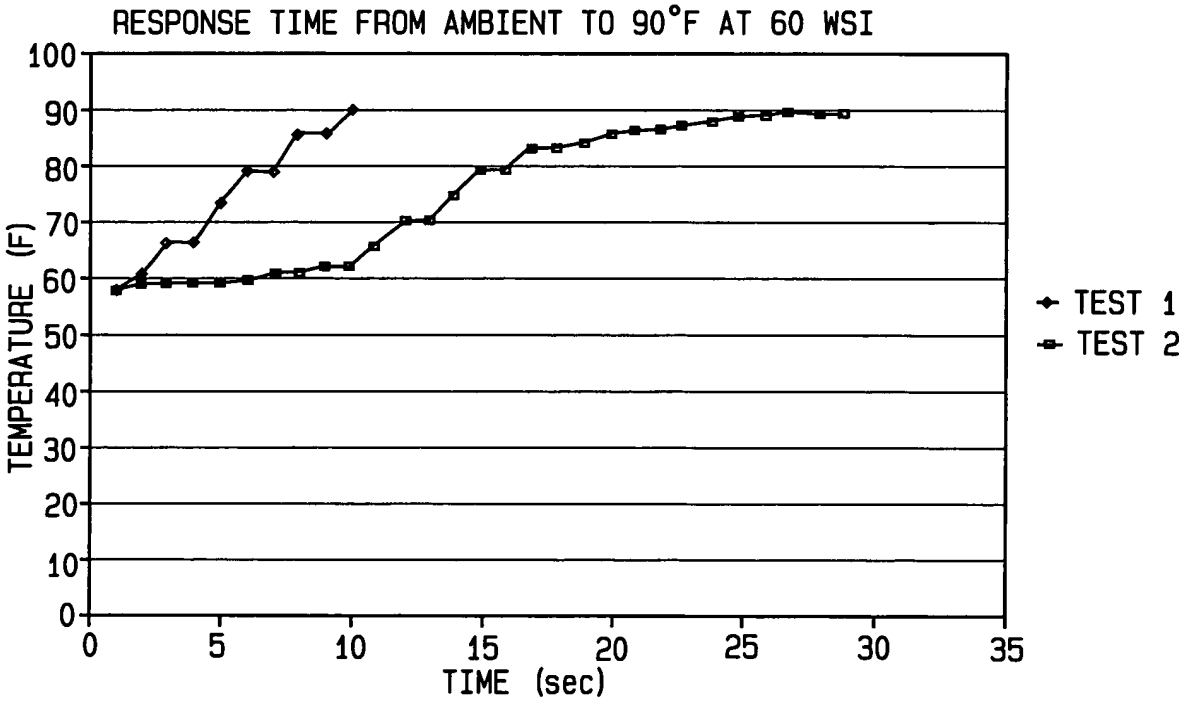

FIG. 12

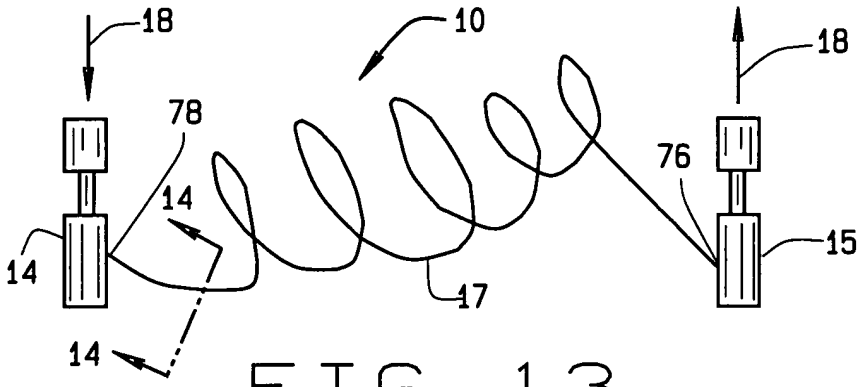

FIG. 13

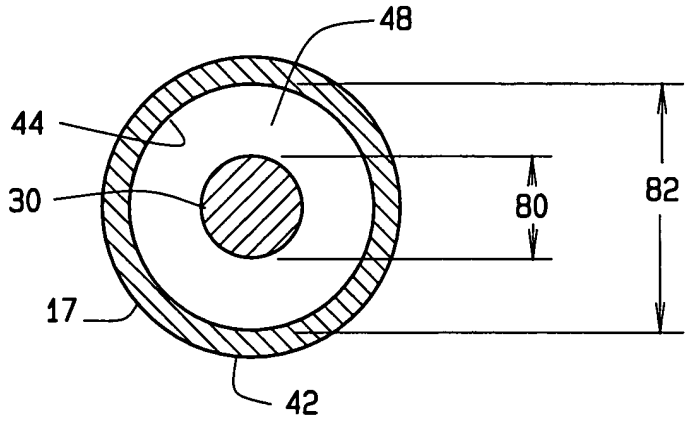

FIG. 14

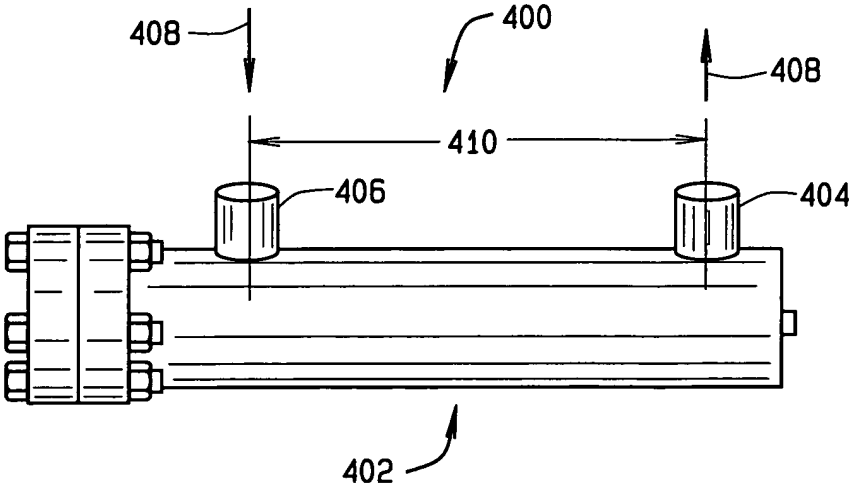

FIG. 15
PRIOR ART

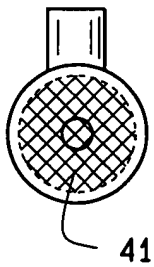

FIG. 16

THERMAL PROPERTIES OF AIR @ VARIOUS TEMPERATURES & 500 psig

TEMPERATURE, F	68	216	500	1000
SPECIFIC HEAT CAPACITY, Cp	.241	.243	.250	.264
THERMAL CONDUCTIVITY, K	.0134	.0143	.0157	.0180
VISCOSITY, ABSOLUTE, μ	.0442	.0540	.0715	.0977
DENSITY, ρ	2.62	2.06	1.43	0.94

C_p=BTU/lb-°F
K=BTU/Ft-hr-°F
μ=lb/Ft-hr
ρ=lb/Ft^3

FIG. 17